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TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica St. Louis

13715 Rider Trail North

Earth City, MO 63045

Tel: (314)298-8566

TestAmerica Job ID: 160-5766-1

Client Project/Site: Glen Isle, Radiological Analyses

For:

Posillico Dev Company at Harbor Isle LLC

1750 New Highway

Farmingdale, New York 11735

Attn: Ellis Koch

Rhonda Ridenhower

Authorized for release by:

3/21/2014 10:37:16 AM

Rhonda Ridenhower, Manager of Project Management

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Case Narrative

Client: Posillico Dev Company at Harbor Isle LLC
Project/Site: Glen Isle, Radiological Analyses

TestAmerica Job ID: 160-5766-1

Job ID: 160-5766-1

Laboratory: TestAmerica St. Louis

Narrative

CASE NARRATIVE

Client: Posillico Dev Company at Harbor Isle LLC

Project: Glen Isle, Radiological Analyses

Report Number: 160-5766-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

TestAmerica St. Louis attests to the validity of the laboratory data generated by TestAmerica facilities reported herein. All analyses performed by TestAmerica facilities were done using established laboratory SOPs that incorporate QA/QC procedures described in the application methods. TestAmerica's operations groups have reviewed the data for compliance with the laboratory QA/QC plan, and data have been found to be compliant with laboratory protocols unless otherwise noted below.

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

All solid sample results for Chemistry analyses are reported on an "as received" basis unless otherwise indicated by the presence of a % solids value in the method header. All soil/sediment sample results for radiochemistry analyses are based upon sample as dried and disaggregated with the exception of tritium, carbon-14, and iodine-129 by gamma spectroscopy unless requested as wet weight by the client."

This laboratory report is confidential and is intended for the sole use of TestAmerica and its client.

RECEIPT

The samples were received on 03/01/2014; the samples arrived in good condition, properly preserved. The temperatures of the 2 coolers at receipt time were 1.4° C and 20.3° C.

RADIUM 226 (0 DAY INGROWTH)

Samples FB031 (160-5766-5), CC-C-028-GW (160-5766-6), LT-C-054-GW (160-5766-7), DUP032 (160-5766-8) and FB004-GW (160-5766-9) were analyzed for radium 226 (0 day ingrowth) in accordance with EPA 903. The samples were prepared on 03/03/2014 and analyzed on 03/05/2014.

Radium 226 was analyzed without ingrowth, as such the results may be biased high.

Sample LT-C-054-GW (160-5766-7) contained a large amount of orange sediment and was reduced to 250 mL.

No other difficulties were encountered during the Radium 226 analysis.

Case Narrative

Client: Posillico Dev Company at Harbor Isle LLC
Project/Site: Glen Isle, Radiological Analyses

TestAmerica Job ID: 160-5766-1

Job ID: 160-5766-1 (Continued)

Laboratory: TestAmerica St. Louis (Continued)

All other quality control parameters were within the acceptance limits.

RADIUM-228 (GFPC)

Samples FB031 (160-5766-5), CC-C-028-GW (160-5766-6), LT-C-054-GW (160-5766-7), DUP032 (160-5766-8) and FB004-GW (160-5766-9) were analyzed for Radium-228 (GFPC) in accordance with EPA 904. The samples were prepared on 03/03/2014 and analyzed on 03/06/2014.

Sample LT-C-054-GW (160-5766-7) contained a large amount of orange sediment and was reduced to 250 mL.

No other difficulties were encountered during the Radium-228 analysis.

All quality control parameters were within the acceptance limits.

ISOTOPIC THORIUM (ALPHA SPECTROMETRY)-Solids

Samples LT-C-065-0-2 (160-5766-1), LT-C-066-0-2 (160-5766-2), LT-C-067-10-12 (160-5766-3) and LT-C-064-8-10 (160-5766-4) were analyzed for Isotopic Thorium (Alpha Spectrometry) in accordance with DOE A01R_Th. The samples were dried on 03/03/2014, prepared on 03/14/2014 and analyzed on 03/19/2014.

The thorium LCS has a high spike recovery (153%) above the QC limit. The samples associated with the batch are to be re-extracted. (160-5766-1 DU), (LCS 160-108690/2-A), (MB 160-108690/1-A), LT-C-064-8-10 (160-5766-4), LT-C-065-0-2 (160-5766-1), LT-C-066-0-2 (160-5766-2), LT-C-067-10-12 (160-5766-3). The re-extract results were acceptable and are reported.

No other difficulties were encountered during the Isotopic Thorium analysis.

All other quality control parameters were within the acceptance limits.

ISOTOPIC THORIUM (ALPHA SPECTROMETRY)-Waters

Samples FB031 (160-5766-5), CC-C-028-GW (160-5766-6), LT-C-054-GW (160-5766-7), DUP032 (160-5766-8) and FB004-GW (160-5766-9) were analyzed for Isotopic Thorium (Alpha Spectrometry) in accordance with DOE. The samples were prepared on 03/06/2014 and 03/14/2014 and analyzed on 03/12/2014 and 03/19/2014.

Sample 5766-C-7 is a dark orange/brown color. The sample aliquot was reduced to prevent matrix interference. LT-C-054-GW (160-5766-7). The thorium-228 and thorium-232 detection goals were not met for the following sample due to a reduced aliquot which can be attributed to the presence of matrix interferences noted during the initial preparation : LT-C-054-GW (160-5766-7). Analytical results are reported with the detection limit achieved.

The laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) spike recoveries associated with the following samples are outside the upper control limit of 125% (LCS: 163% and LCSD: 154%), indicating a potential positive bias for thorium-230: (LCS 160-108795/2-A), (LCSD 160-108795/3-A), (MB 160-108795/1-A), CC-C-028-GW (160-5766-6), DUP032 (160-5766-8), FB004-GW (160-5766-9), FB031 (160-5766-5). The associated samples did not exhibit concentrations greater than the MDC for the analyte, therefore the sample data was not adversely affected by this excursion.

No other difficulties were encountered during the Isotopic Thorium analysis.

All other quality control parameters were within the acceptance limits.

ISOTOPIC URANIUM (ALPHA SPECTROMETRY)-Solids

Samples LT-C-065-0-2 (160-5766-1), LT-C-066-0-2 (160-5766-2), LT-C-067-10-12 (160-5766-3) and LT-C-064-8-10 (160-5766-4) were analyzed for Isotopic Uranium (Alpha Spectrometry) in accordance with DOE. The samples were dried on 03/03/2014, prepared on 03/05/2014 and analyzed on 03/09/2014.

No difficulties were encountered during the Isotopic Uranium analysis.

All quality control parameters were within the acceptance limits.

Case Narrative

Client: Posillico Dev Company at Harbor Isle LLC
Project/Site: Glen Isle, Radiological Analyses

TestAmerica Job ID: 160-5766-1

Job ID: 160-5766-1 (Continued)

Laboratory: TestAmerica St. Louis (Continued)

ISOTOPIC URANIUM (ALPHA SPECTROMETRY)-Waters

Samples FB031 (160-5766-5), CC-C-028-GW (160-5766-6), LT-C-054-GW (160-5766-7), DUP032 (160-5766-8) and FB004-GW (160-5766-9) were analyzed for Isotopic Uranium (Alpha Spectrometry) in accordance with DOE. The samples were prepared on 03/06/2014 and analyzed on 03/12/2014.

Sample 5766-C-7 is a dark orange/brown color. The sample aliquot was reduced to prevent matrix interference. LT-C-054-GW (160-5766-7). The uranium-234, uranium-235, and uranium-238 detection goals were not met for the following samples due to a reduced aliquot which can be attributed to the presence of matrix interferences noted during the initial preparation LT-C-054-GW (160-5766-7). Analytical results are reported with the detection limit achieved.

No difficulties were encountered during the Isotopic Uranium analysis.

All quality control parameters were within the acceptance limits.

CESIUM-137 & OTHER GAMMA EMITTERS (GS)-Waters

Samples FB031 (160-5766-5), CC-C-028-GW (160-5766-6), LT-C-054-GW (160-5766-7), DUP032 (160-5766-8) and FB004-GW (160-5766-9) were analyzed for Cesium-137 & Other Gamma Emitters (GS) in accordance with DOE. The samples were prepared on 03/04/2014 and analyzed on 03/10/2014, 03/12/2014, 03/14/2014 and 03/17/2014.

The reporting limit for protactinium-231 and protactinium-234m was not met. Pa-234m has an elevated MDC due to low abundance. The activity is not supported by thorium-234 or other members of the decay chain. The data is reported with the MDC achieved. (160-5766-5 DU), (MB 160-108349/1-A), CC-C-028-GW (160-5766-6), DUP032 (160-5766-8), FB004-GW (160-5766-9), FB031 (160-5766-5), LT-C-054-GW (160-5766-7)

No difficulties were encountered during the gamma spec analysis.

All quality control parameters were within the acceptance limits.

RADIUM 226 (NO INGROWTH)-Solids

Samples LT-C-065-0-2 (160-5766-1), LT-C-066-0-2 (160-5766-2), LT-C-067-10-12 (160-5766-3) and LT-C-064-8-10 (160-5766-4) were analyzed for Radium 226 (No ingrowth) in accordance with GA-01-R. The samples were dried on 03/03/2014, prepared on 03/06/2014 and analyzed on 03/11/2014 and 03/14/2014.

Radium-226 by gamma spectroscopy is typically determined by inference from daughters (e.g. bismuth-214) after sealing the sample in an appropriate counting geometry/container and waiting 21 days to allow the radium-226 decay chain through radon-222 to reach secular equilibrium. Such an approach is considered to be the most reliable and representative means for establishing the true radium-226 concentration in the sample. The method requested by the client to report radium-226, using its own 186 keV gamma-ray emission, is subject to interference and potential bias due to the 185.7 keV uranium-235 gamma ray. Experience also indicates gamma spectroscopy software does not consistently assign accurate peak areas to radium-226 (186 keV), with the problem compounded by slight drift of the instrumentation. The laboratory considers radium-226 reported based upon the 186 keV gamma-ray emission to be best used by the client in a qualitative fashion. (160-5766-1 DU), (MB 160-108780/1-A), LT-C-064-8-10 (160-5766-4), LT-C-065-0-2 (160-5766-1), LT-C-066-0-2 (160-5766-2), LT-C-067-10-12 (160-5766-3)

The samples were counted for 6 hours in a marn soil geometry to reduce the detection limit(s), the sample-specific MDC for pb-210 is above the client-requested limit of 0.1pCi/g. This appears to be due to elevated Compton background due to activity in the sample. The pb-210 MDC for the method blank met the RL. The sample is reported with the MDC achieved. (160-5766-1 DU), LT-C-065-0-2 (160-5766-1), LT-C-066-0-2 (160-5766-2)

No other difficulties were encountered during the Gamma spec analysis.

All other quality control parameters were within the acceptance limits.

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

CHAIN OF CUSTODY / ANALYSIS REQUEST

Page 2 of 3

777 New Durham Road
Edison, New Jersey 08817
Phone: (732) 549-3900 Fax: (732) 549-3679

Name (for report and invoice)
Ellis Koch
Company
BXR - Glen Isle Partners, LLC
Address
625 - BXR Plaza State
Uniondale NY
Phone
Fax

Ent

Samplers Name (Printed)
Amanda Recanati/Tom Fitzgerald
P.O. #
State (Location of site): NJ: NY: Other:

Site/Project Identification
Glen Isle Waterfront Redevelopment
Regulatory Program:

Analysis Requested (ENTER X BELOW TO INDICATE REQUEST)		LAB USE ONLY			
		Project No:		Job No:	
Sample Identification	Date	Date	Time	Matrix	No. of. Cont.
D003	2-16-14	X	X	Soil	1
LT-C-068-8-2		1235			1
LT-C-068-4-6		1246			1
LT-C-068-8-10		1245			1
LT-C-070-8-2		1320			1
LT-C-070-2-4		1325			1
LT-C-070-8-10		1330			1
LT-C-064-0-2 (MS1155)		1350			3
LT-C-064-2-4		1355			1
LT-C-064-8-10		1405			1
Preservation Used: 1 = ICE, 2 = HCl, 3 = H ₂ SO ₄ , 4 = HNO ₃ , 5 = NaOH					
Soil: 6 = Other 7 = Other					
Water: 6 = Other 7 = Other					

Special Instructions		Water Metals Filtered (Yes/No)?			
Relinquished by	Company	Date / Time	Received By	Water Metals Filtered (Yes/No)?	Company
1)	<i>M. M.</i>	2/27/14 13:21	<i>J. B.</i>	<input checked="" type="checkbox"/>	<i>T. A. T. A. S. T. R.</i>
2)	<i>Company</i>	Date / Time	Received by		Company
3)	<i>T. J.</i>	02-27-14 14:05	<i>Oliver Clark</i>	<input checked="" type="checkbox"/>	<i>T. A. S. T. R. 3-1-14 0825</i>
4)	<i>Company</i>	Date / Time	Received by		Company

Laboratory Certifications: New Jersey (12028), New York (11452), Pennsylvania (68-522), Connecticut (PH-0200), Rhode Island (132).
Massachusetts (M-NJ312), North Carolina (No. 578)

TAL - 0016 (0408)

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TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Name (for report and invoice)

Ellis Kieh

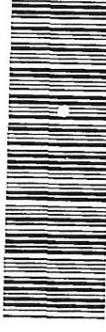
Company

RiverGlen Isle Partners, LLC

Address

**1015 River Plaza
City Uniondale State NY 11520
Phone Fax**

CHAIN OF CUSTODY / ANALYSIS!



Name (for report and invoice)

Amanda Recanella

P. O. #

Samplers Name (Printed)

Project No:

Other:

Site/Project Identification

State (Location of site): NJ: NY:

Regulatory Program:

Glen Isle Waterfront Redevelopment

Other:

Page 1 of 1

480-55331 Chain of Custody

088-17
300 Fax: (732) 549-3679

Sample Identification	Date	Time	Matrix	No. of Cont.	ANALYSIS REQUESTED (ENTER X BELOW TO INDICATE REQUEST)				Sample Numbers	
					Standard	Rush Charges Authorized For:	2 Week <input type="checkbox"/>	1 Week <input type="checkbox"/>	Other <input type="checkbox"/>	
QM-11	2/26/14	0815	GW	10	X	X	X	X		
CC-C-048-GW	1/02/15		GW	10	X	X	X	X		
CC-C-028-GW	1/02/15		GW	11	X	X	X	X		
CC-C-061-GW	1/3/15		GW	6	X	X	X	X		
LT-C-054-GW	1/15/15		GW	11	X	X	X	X		
DUP032	XXXX		GW	5	X	X	X	X		
FB004-GW	1/20/15	V	GW	10	X	X	X	X		
TB	—	—	Liquid	1	(A)					

Preservation Used: 1 = ICE, 2 = HCl, 3 = H₂SO₄, 4 = HNO₃, 5 = NaOH
6 = Other _____, 7 = Other _____

Soil: _____
Water: _____

Special Instructions

Relinquished by	Company	Date / Time	Received by	Water Metals Filtered (Yes/No)?
<i>M. Radin</i>	<i>MANSC</i>	<i>2/27/14 14:00</i>	<i>John</i>	<i>Company</i>
Relinquished by	Company	Date / Time	Received by	Company
2)			<i>John</i>	<i>TAL 2/28/14 One</i>
Relinquished by	Company	Date / Time	Received by	Company
3) <i>S. Somu</i>	<i>T.A.</i>	<i>02-27-14 14:00</i>	<i>All Clarke</i>	<i>TAL 3/1/14 0825</i>
Relinquished by	Company	Date / Time	Received by	Company
4)				

Laboratory Certifications: New Jersey (12028), New York (11452), Pennsylvania (68-522), Connecticut (PH-0200), Rhode Island (132), Massachusetts (M-NJ312), North Carolina (No. 578)

TAL - 0016 (0406)

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Login Sample Receipt Checklist

Client: Posillico Dev Company at Harbor Isle LLC

Job Number: 160-5766-1

Login Number: 5766

List Source: TestAmerica St. Louis

List Number: 1

Creator: Clarke, Jill C

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Definitions/Glossary

Client: Posillico Dev Company at Harbor Isle LLC
Project/Site: Glen Isle, Radiological Analyses

TestAmerica Job ID: 160-5766-1

Qualifiers

Rad

Qualifier	Qualifier Description
U	Result is less than the sample detection limit.
*	LCS or LCSD exceeds the control limits
G	The Sample MDC is greater than the requested RL.

Glossary

Abbreviation These commonly used abbreviations may or may not be present in this report.

□	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

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Method Summary

Client: Posillico Dev Company at Harbor Isle LLC
Project/Site: Glen Isle, Radiological Analyses

TestAmerica Job ID: 160-5766-1

Method	Method Description	Protocol	Laboratory
903.0	Radium-226 (GFPC)	EPA	TAL SL
904.0	Radium-228 (GFPC)	EPA	TAL SL
A-01-R	Isotopic Uranium (Alpha Spectrometry)	DOE	TAL SL
A-01-R	Isotopic Thorium (Alpha Spectrometry)	DOE	TAL SL
GA-01-R	Cesium-137 & Other Gamma Emitters (GS)	DOE	TAL SL
GA-01-R	Radium-226 & Other Gamma Emitters (GS)	DOE	TAL SL

Protocol References:

DOE = U.S. Department of Energy

EPA = US Environmental Protection Agency

Laboratory References:

TAL SL = TestAmerica St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

Sample Summary

Client: Posillico Dev Company at Harbor Isle LLC
Project/Site: Glen Isle, Radiological Analyses

TestAmerica Job ID: 160-5766-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
160-5766-1	LT-C-065-0-2	Solid	02/26/14 09:30	03/01/14 08:25
160-5766-2	LT-C-066-0-2	Solid	02/26/14 10:45	03/01/14 08:25
160-5766-3	LT-C-067-10-12	Solid	02/26/14 11:40	03/01/14 08:25
160-5766-4	LT-C-064-8-10	Solid	02/26/14 14:05	03/01/14 08:25
160-5766-5	FB031	Water	02/26/14 15:30	03/01/14 08:25
160-5766-6	CC-C-028-GW	Water	02/26/14 10:50	03/01/14 08:25
160-5766-7	LT-C-054-GW	Water	02/26/14 14:55	03/01/14 08:25
160-5766-8	DUP032	Water	02/26/14 00:00	03/01/14 08:25
160-5766-9	FB004-GW	Water	02/26/14 14:30	03/01/14 08:25

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TestAmerica St. Louis

Client Sample Results

Client: Posillico Dev Company at Harbor Isle LLC
 Project/Site: Glen Isle, Radiological Analyses

TestAmerica Job ID: 160-5766-1

Client Sample ID: LT-C-065-0-2

Lab Sample ID: 160-5766-1

Matrix: Solid

Date Collected: 02/26/14 09:30

Date Received: 03/01/14 08:25

Method: A-01-R - Isotopic Thorium (Alpha Spectrometry)

Analyte	Result	Qualifier	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
			Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Thorium-228	0.464		0.149	0.154	1.00	0.0961	pCi/g	03/14/14 12:05	03/19/14 19:11	1
Thorium-230	0.510		0.152	0.158	1.00	0.0581	pCi/g	03/14/14 12:05	03/19/14 19:11	1
Thorium-232	0.556		0.157	0.164	1.00	0.0334	pCi/g	03/14/14 12:05	03/19/14 19:11	1
Tracer	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Thorium-229	84.6		30 - 110					03/14/14 12:05	03/19/14 19:11	1

Method: A-01-R - Isotopic Uranium (Alpha Spectrometry)

Analyte	Result	Qualifier	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
			Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Uranium-233/234	0.374		0.131	0.135	1.00	0.0872	pCi/g	03/05/14 10:37	03/09/14 23:19	1
Uranium-235/236	0.0241	U	0.0380	0.0380	1.00	0.0606	pCi/g	03/05/14 10:37	03/09/14 23:19	1
Uranium-238	0.293		0.113	0.116	1.00	0.0608	pCi/g	03/05/14 10:37	03/09/14 23:19	1
Tracer	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Uranium-232	85.7		30 - 110					03/05/14 10:37	03/09/14 23:19	1

Method: GA-01-R - Radium-226 & Other Gamma Emitters (GS)

Analyte	Result	Qualifier	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
			Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Actinium 228	0.559		0.0257	0.0625	0.100	0.0286	pCi/g	03/06/14 08:41	03/14/14 02:55	1
Bismuth-212	0.623		0.105	0.123	0.100	0.0987	pCi/g	03/06/14 08:41	03/14/14 02:55	1
Bismuth-214	0.446		0.0182	0.0498	0.100	0.0162	pCi/g	03/06/14 08:41	03/14/14 02:55	1
Lead-210	0.436		0.116	0.127	0.100	0.156	pCi/g	03/06/14 08:41	03/14/14 02:55	1
Lead-212	0.608		0.0146	0.0800	0.100	0.0116	pCi/g	03/06/14 08:41	03/14/14 02:55	1
Lead-214	0.546		0.0204	0.0603	0.100	0.0157	pCi/g	03/06/14 08:41	03/14/14 02:55	1
Potassium-40	8.88		0.229	0.937	2.50	0.0837	pCi/g	03/06/14 08:41	03/14/14 02:55	1
Protactinium-231	-0.226	U	0.139	0.141	1.00	0.226	pCi/g	03/06/14 08:41	03/14/14 02:55	1
Radium-226	1.11		0.160	0.251	1.00	0.177	pCi/g	03/06/14 08:41	03/14/14 02:55	1
Radium-228	0.559		0.0257	0.0625	1.00	0.0286	pCi/g	03/06/14 08:41	03/14/14 02:55	1
Thorium-234	0.604		0.120	0.135	1.00	0.162	pCi/g	03/06/14 08:41	03/14/14 02:55	1
Thallium-208	0.184		0.00957	0.0214	0.100	0.00759	pCi/g	03/06/14 08:41	03/14/14 02:55	1
Uranium-235	0.0554		0.0254	0.0260	1.00	0.0356	pCi/g	03/06/14 08:41	03/14/14 02:55	1
Uranium-238	0.604		0.120	0.135	1.00	0.162	pCi/g	03/06/14 08:41	03/14/14 02:55	1
Protactinium-234m	1.67		0.894	0.910	10.0	0.889	pCi/g	03/06/14 08:41	03/14/14 02:55	1

Client Sample ID: LT-C-066-0-2

Lab Sample ID: 160-5766-2

Matrix: Solid

Date Collected: 02/26/14 10:45

Date Received: 03/01/14 08:25

Method: A-01-R - Isotopic Thorium (Alpha Spectrometry)

Analyte	Result	Qualifier	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
			Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Thorium-228	0.484		0.159	0.164	1.00	0.121	pCi/g	03/14/14 12:05	03/19/14 19:11	1
Thorium-230	0.660		0.175	0.184	1.00	0.0529	pCi/g	03/14/14 12:05	03/19/14 19:11	1

TestAmerica St. Louis

Client Sample Results

Client: Posillico Dev Company at Harbor Isle LLC
 Project/Site: Glen Isle, Radiological Analyses

TestAmerica Job ID: 160-5766-1

Client Sample ID: LT-C-066-0-2

Lab Sample ID: 160-5766-2

Date Collected: 02/26/14 10:45

Matrix: Solid

Date Received: 03/01/14 08:25

Method: A-01-R - Isotopic Thorium (Alpha Spectrometry) (Continued)

Analyte	Result	Qualifier	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
			Uncert.	(2σ+/-)						
Thorium-232	0.678		0.178	0.187	1.00	0.0601	pCi/g	03/14/14 12:05	03/19/14 19:11	1
Tracer	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Thorium-229	82.4		30 - 110					03/14/14 12:05	03/19/14 19:11	1

Method: A-01-R - Isotopic Uranium (Alpha Spectrometry)

Analyte	Result	Qualifier	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
			Uncert.	(2σ+/-)						
Uranium-233/234	0.385		0.131	0.135	1.00	0.0811	pCi/g	03/05/14 10:37	03/09/14 23:19	1
Uranium-235/236	0.0346	U	0.0462	0.0463	1.00	0.0685	pCi/g	03/05/14 10:37	03/09/14 23:19	1
Uranium-238	0.447		0.139	0.144	1.00	0.0645	pCi/g	03/05/14 10:37	03/09/14 23:19	1
Tracer	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Uranium-232	90.5		30 - 110					03/05/14 10:37	03/09/14 23:19	1

Method: GA-01-R - Radium-226 & Other Gamma Emitters (GS)

Analyte	Result	Qualifier	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
			Uncert.	(2σ+/-)						
Actinium 228	0.766		0.0298	0.0837	0.100	0.0278	pCi/g	03/06/14 08:41	03/11/14 12:04	1
Bismuth-212	0.809		0.0896	0.123	0.100	0.0827	pCi/g	03/06/14 08:41	03/11/14 12:04	1
Bismuth-214	0.586		0.0240	0.0654	0.100	0.0178	pCi/g	03/06/14 08:41	03/11/14 12:04	1
Lead-210	0.865		0.161	0.191	0.100	0.200	pCi/g	03/06/14 08:41	03/11/14 12:04	1
Lead-212	0.839		0.0174	0.110	0.100	0.0136	pCi/g	03/06/14 08:41	03/11/14 12:04	1
Lead-214	0.660		0.0226	0.0722	0.100	0.0205	pCi/g	03/06/14 08:41	03/11/14 12:04	1
Potassium-40	8.92		0.225	0.941	2.50	0.0926	pCi/g	03/06/14 08:41	03/11/14 12:04	1
Protactinium-231	0.0985	U	0.115	0.115	1.00	0.189	pCi/g	03/06/14 08:41	03/11/14 12:04	1
Radium-226	1.46		0.173	0.308	1.00	0.194	pCi/g	03/06/14 08:41	03/11/14 12:04	1
Radium-228	0.766		0.0298	0.0837	1.00	0.0278	pCi/g	03/06/14 08:41	03/11/14 12:04	1
Thorium-234	0.765		0.144	0.165	1.00	0.190	pCi/g	03/06/14 08:41	03/11/14 12:04	1
Thallium-208	0.262		0.0123	0.0298	0.100	0.00926	pCi/g	03/06/14 08:41	03/11/14 12:04	1
Uranium-235	0.0539		0.0365	0.0369	1.00	0.0467	pCi/g	03/06/14 08:41	03/11/14 12:04	1
Uranium-238	0.765		0.144	0.165	1.00	0.190	pCi/g	03/06/14 08:41	03/11/14 12:04	1
Protactinium-234m	1.65		0.976	0.990	10.0	0.976	pCi/g	03/06/14 08:41	03/11/14 12:04	1

Client Sample ID: LT-C-067-10-12

Lab Sample ID: 160-5766-3

Date Collected: 02/26/14 11:40

Matrix: Solid

Date Received: 03/01/14 08:25

Method: A-01-R - Isotopic Thorium (Alpha Spectrometry)

Analyte	Result	Qualifier	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
			Uncert.	(2σ+/-)						
Thorium-228	0.499		0.155	0.161	1.00	0.0955	pCi/g	03/14/14 12:05	03/19/14 19:11	1
Thorium-230	0.290		0.117	0.119	1.00	0.0650	pCi/g	03/14/14 12:05	03/19/14 19:11	1
Thorium-232	0.411		0.138	0.142	1.00	0.0590	pCi/g	03/14/14 12:05	03/19/14 19:11	1

TestAmerica St. Louis

Client Sample Results

Client: Posillico Dev Company at Harbor Isle LLC
 Project/Site: Glen Isle, Radiological Analyses

TestAmerica Job ID: 160-5766-1

Client Sample ID: LT-C-067-10-12

Lab Sample ID: 160-5766-3

Matrix: Solid

Date Collected: 02/26/14 11:40

Date Received: 03/01/14 08:25

Tracer	%Yield	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Thorium-229	81.9		30 - 110	03/14/14 12:05	03/19/14 19:11	1

Method: A-01-R - Isotopic Uranium (Alpha Spectrometry)

Analyte	Result	Qualifier	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
			(2σ+/-)	(2σ+/-)						
Uranium-233/234	0.190		0.0965	0.0978	1.00	0.0840	pCi/g	03/05/14 10:37	03/09/14 23:19	1
Uranium-235/236	0.0333 U		0.0481	0.0482	1.00	0.0777	pCi/g	03/05/14 10:37	03/09/14 23:19	1
Uranium-238	0.105		0.0695	0.0701	1.00	0.0569	pCi/g	03/05/14 10:37	03/09/14 23:19	1
Tracer	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Uranium-232	82.6		30 - 110					03/05/14 10:37	03/09/14 23:19	1

Method: GA-01-R - Radium-226 & Other Gamma Emitters (GS)

Analyte	Result	Qualifier	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
			(2σ+/-)	(2σ+/-)						
Actinium 228	0.470		0.0253	0.0543	0.100	0.0191	pCi/g	03/06/14 08:41	03/11/14 12:05	1
Bismuth-212	0.533		0.0785	0.0960	0.100	0.0703	pCi/g	03/06/14 08:41	03/11/14 12:05	1
Bismuth-214	0.222		0.0148	0.0274	0.100	0.0125	pCi/g	03/06/14 08:41	03/11/14 12:05	1
Lead-210	0.169		0.102	0.104	0.100	0.139	pCi/g	03/06/14 08:41	03/11/14 12:05	1
Lead-212	0.453		0.0124	0.0600	0.100	0.0123	pCi/g	03/06/14 08:41	03/11/14 12:05	1
Lead-214	0.247		0.0143	0.0293	0.100	0.0137	pCi/g	03/06/14 08:41	03/11/14 12:05	1
Potassium-40	5.42		0.160	0.578	2.50	0.0664	pCi/g	03/06/14 08:41	03/11/14 12:05	1
Protactinium-231	-0.176 U		0.114	0.116	1.00	0.186	pCi/g	03/06/14 08:41	03/11/14 12:05	1
Radium-226	0.516		0.107	0.140	1.00	0.126	pCi/g	03/06/14 08:41	03/11/14 12:05	1
Radium-228	0.470		0.0253	0.0543	1.00	0.0191	pCi/g	03/06/14 08:41	03/11/14 12:05	1
Thorium-234	0.307		0.110	0.115	1.00	0.141	pCi/g	03/06/14 08:41	03/11/14 12:05	1
Thallium-208	0.158		0.00822	0.0184	0.100	0.00628	pCi/g	03/06/14 08:41	03/11/14 12:05	1
Uranium-235	0.0188 U		0.0269	0.0270	1.00	0.0400	pCi/g	03/06/14 08:41	03/11/14 12:05	1
Uranium-238	0.307		0.110	0.115	1.00	0.141	pCi/g	03/06/14 08:41	03/11/14 12:05	1
Protactinium-234m	0.592 U		0.452	0.456	10.0	0.730	pCi/g	03/06/14 08:41	03/11/14 12:05	1

Client Sample ID: LT-C-064-8-10

Lab Sample ID: 160-5766-4

Matrix: Solid

Date Collected: 02/26/14 14:05

Date Received: 03/01/14 08:25

Analyte	Result	Qualifier	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
			(2σ+/-)	(2σ+/-)						
Thorium-228	0.486		0.148	0.153	1.00	0.0821	pCi/g	03/14/14 12:05	03/19/14 19:11	1
Thorium-230	0.385		0.129	0.133	1.00	0.0488	pCi/g	03/14/14 12:05	03/19/14 19:11	1
Thorium-232	0.395		0.130	0.134	1.00	0.0320	pCi/g	03/14/14 12:05	03/19/14 19:11	1
Tracer	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Thorium-229	88.7		30 - 110					03/14/14 12:05	03/19/14 19:11	1

TestAmerica St. Louis

Client Sample Results

Client: Posillico Dev Company at Harbor Isle LLC
 Project/Site: Glen Isle, Radiological Analyses

TestAmerica Job ID: 160-5766-1

Client Sample ID: LT-C-064-8-10

Lab Sample ID: 160-5766-4

Matrix: Solid

Date Collected: 02/26/14 14:05

Date Received: 03/01/14 08:25

Method: A-01-R - Isotopic Uranium (Alpha Spectrometry)

Analyte	Result	Qualifier	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
			Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Uranium-233/234	0.317		0.125	0.128	1.00	0.0925	pCi/g	03/05/14 10:37	03/09/14 23:19	1
Uranium-235/236	0.0283	U	0.0400	0.0400	1.00	0.0424	pCi/g	03/05/14 10:37	03/09/14 23:19	1
Uranium-238	0.275		0.114	0.116	1.00	0.0692	pCi/g	03/05/14 10:37	03/09/14 23:19	1
Tracer	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Uranium-232	82.9		30 - 110					03/05/14 10:37	03/09/14 23:19	1

Method: GA-01-R - Radium-226 & Other Gamma Emitters (GS)

Analyte	Result	Qualifier	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
			Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Actinium 228	0.539		0.0254	0.0605	0.100	0.0202	pCi/g	03/06/14 08:41	03/11/14 12:04	1
Bismuth-212	0.595		0.0976	0.116	0.100	0.0866	pCi/g	03/06/14 08:41	03/11/14 12:04	1
Bismuth-214	0.370		0.0184	0.0426	0.100	0.0144	pCi/g	03/06/14 08:41	03/11/14 12:04	1
Lead-210	0.374		0.0990	0.108	0.100	0.138	pCi/g	03/06/14 08:41	03/11/14 12:04	1
Lead-212	0.540		0.0139	0.0712	0.100	0.0110	pCi/g	03/06/14 08:41	03/11/14 12:04	1
Lead-214	0.420		0.0167	0.0467	0.100	0.0143	pCi/g	03/06/14 08:41	03/11/14 12:04	1
Potassium-40	6.13		0.192	0.656	2.50	0.0741	pCi/g	03/06/14 08:41	03/11/14 12:04	1
Protactinium-231	-0.206	U	0.131	0.133	1.00	0.213	pCi/g	03/06/14 08:41	03/11/14 12:04	1
Radium-226	0.847		0.131	0.198	1.00	0.155	pCi/g	03/06/14 08:41	03/11/14 12:04	1
Radium-228	0.539		0.0254	0.0605	1.00	0.0202	pCi/g	03/06/14 08:41	03/11/14 12:04	1
Thorium-234	0.499		0.119	0.130	1.00	0.158	pCi/g	03/06/14 08:41	03/11/14 12:04	1
Thallium-208	0.163		0.00927	0.0193	0.100	0.00743	pCi/g	03/06/14 08:41	03/11/14 12:04	1
Uranium-235	0.0554		0.0269	0.0275	1.00	0.0381	pCi/g	03/06/14 08:41	03/11/14 12:04	1
Uranium-238	0.499		0.119	0.130	1.00	0.158	pCi/g	03/06/14 08:41	03/11/14 12:04	1
Protactinium-234m	0.579	U	0.612	0.615	10.0	1.00	pCi/g	03/06/14 08:41	03/11/14 12:04	1

Client Sample ID: FB031

Lab Sample ID: 160-5766-5

Matrix: Water

Date Collected: 02/26/14 15:30

Date Received: 03/01/14 08:25

Method: 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
			Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-226	0.0555	U	0.113	0.113	1.00	0.201	pCi/L	03/03/14 15:10	03/05/14 18:43	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	94.4		40 - 110					03/03/14 15:10	03/05/14 18:43	1

Method: 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
			Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-228	0.0677	U	0.202	0.202	1.00	0.349	pCi/L	03/03/14 15:08	03/06/14 11:00	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	103		40 - 110					03/03/14 15:08	03/06/14 11:00	1
Y Carrier	87.6		40 - 110					03/03/14 15:08	03/06/14 11:00	1

TestAmerica St. Louis

Client Sample Results

Client: Posillico Dev Company at Harbor Isle LLC
 Project/Site: Glen Isle, Radiological Analyses

TestAmerica Job ID: 160-5766-1

Client Sample ID: FB031

Lab Sample ID: 160-5766-5

Date Collected: 02/26/14 15:30

Matrix: Water

Date Received: 03/01/14 08:25

Method: A-01-R - Isotopic Thorium (Alpha Spectrometry)

Analyte	Result	Qualifier	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
			Uncert.	(2σ+/-)						
Thorium-228	0.239	U	0.231	0.232	1.00	0.329	pCi/L	03/06/14 09:47	03/12/14 18:05	1
Thorium-230	0.104	U *	0.130	0.130	1.00	0.171	pCi/L	03/06/14 09:47	03/12/14 18:05	1
Thorium-232	0.0373	U	0.0746	0.0747	1.00	0.112	pCi/L	03/06/14 09:47	03/12/14 18:05	1
Tracer	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Thorium-229	50.6		30 - 110					03/06/14 09:47	03/12/14 18:05	1

Method: A-01-R - Isotopic Uranium (Alpha Spectrometry)

Analyte	Result	Qualifier	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
			Uncert.	(2σ+/-)						
Uranium-233/234	0.0512	U	0.0806	0.0807	1.00	0.139	pCi/L	03/06/14 09:47	03/12/14 18:03	1
Uranium-235/236	0.0230	U	0.0576	0.0576	1.00	0.129	pCi/L	03/06/14 09:47	03/12/14 18:03	1
Uranium-238	0.0184	U	0.0462	0.0462	1.00	0.103	pCi/L	03/06/14 09:47	03/12/14 18:03	1
Tracer	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Uranium-232	79.4		30 - 110					03/06/14 09:47	03/12/14 18:03	1

Method: GA-01-R - Cesium-137 & Other Gamma Emitters (GS)

Analyte	Result	Qualifier	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
			Uncert.	(2σ+/-)						
Actinium-228	8.87	U	7.51	7.56	50.0	14.4	pCi/L	03/04/14 15:22	03/12/14 02:42	1
Cesium-137	-0.0162	U	2.39	2.39	20.0	4.20	pCi/L	03/04/14 15:22	03/12/14 02:42	1
Bismuth-212	24.8	U	27.9	28.0	50.0	45.6	pCi/L	03/04/14 15:22	03/12/14 02:42	1
Bismuth-214	-3.29	U	11.7	11.7	50.0	11.7	pCi/L	03/04/14 15:22	03/12/14 02:42	1
Lead-212	-1.94	U	5.70	5.71	50.0	7.19	pCi/L	03/04/14 15:22	03/12/14 02:42	1
Lead-214	-1.86	U	7.85	7.85	50.0	9.76	pCi/L	03/04/14 15:22	03/12/14 02:42	1
Potassium-40	48.9	U	40.3	40.6	75.0	62.0	pCi/L	03/04/14 15:22	03/12/14 02:42	1
Protactinium-234m	193	U G	308	309	75.0	516	pCi/L	03/04/14 15:22	03/12/14 02:42	1
Protactinium-231	5.43	U G	39.8	39.8	75.0	107	pCi/L	03/04/14 15:22	03/12/14 02:42	1

Client Sample ID: CC-C-028-GW

Lab Sample ID: 160-5766-6

Date Collected: 02/26/14 10:50

Matrix: Water

Date Received: 03/01/14 08:25

Method: 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
			Uncert.	(2σ+/-)						
Radium-226	1.76		0.339	0.374	1.00	0.242	pCi/L	03/03/14 14:52	03/05/14 18:43	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	78.5		40 - 110					03/03/14 14:52	03/05/14 18:43	1

TestAmerica St. Louis

Client Sample Results

Client: Posillico Dev Company at Harbor Isle LLC
 Project/Site: Glen Isle, Radiological Analyses

TestAmerica Job ID: 160-5766-1

Client Sample ID: CC-C-028-GW

Lab Sample ID: 160-5766-6

Date Collected: 02/26/14 10:50

Matrix: Water

Date Received: 03/01/14 08:25

Method: 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
			Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-228	1.24		0.342	0.360	1.00	0.433	pCi/L	03/03/14 14:45	03/06/14 10:59	1
Carrier										
Ba Carrier	83.5		40 - 110					03/03/14 14:45	03/06/14 10:59	1
Y Carrier	89.6		40 - 110					03/03/14 14:45	03/06/14 10:59	1

Method: A-01-R - Isotopic Thorium (Alpha Spectrometry)

Analyte	Result	Qualifier	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
			Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Thorium-228	0.250	U	0.306	0.306	1.00	0.479	pCi/L	03/06/14 09:47	03/12/14 18:05	1
Thorium-230	0.0414	U *	0.125	0.125	1.00	0.304	pCi/L	03/06/14 09:47	03/12/14 18:05	1
Thorium-232	-0.0226	U	0.0320	0.0321	1.00	0.314	pCi/L	03/06/14 09:47	03/12/14 18:05	1
Tracer										
Thorium-229	30.8		30 - 110					03/06/14 09:47	03/12/14 18:05	1

Method: A-01-R - Isotopic Uranium (Alpha Spectrometry)

Analyte	Result	Qualifier	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
			Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Uranium-233/234	0.156	U	0.142	0.142	1.00	0.163	pCi/L	03/06/14 09:47	03/12/14 18:03	1
Uranium-235/236	-0.0134	U	0.0189	0.0189	1.00	0.185	pCi/L	03/06/14 09:47	03/12/14 18:03	1
Uranium-238	0.0286	U	0.0572	0.0572	1.00	0.0857	pCi/L	03/06/14 09:47	03/12/14 18:03	1
Tracer										
Uranium-232	66.1		30 - 110					03/06/14 09:47	03/12/14 18:03	1

Method: GA-01-R - Cesium-137 & Other Gamma Emitters (GS)

Analyte	Result	Qualifier	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
			Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Actinium-228	25.9		10.7	11.0	50.0	11.2	pCi/L	03/04/14 15:22	03/10/14 03:20	1
Cesium-137	0.565	U	2.35	2.35	20.0	4.03	pCi/L	03/04/14 15:22	03/10/14 03:20	1
Bismuth-212	17.8	U	27.0	27.0	50.0	44.9	pCi/L	03/04/14 15:22	03/10/14 03:20	1
Bismuth-214	2.92	U	8.08	8.08	50.0	11.7	pCi/L	03/04/14 15:22	03/10/14 03:20	1
Lead-212	1.55	U	3.88	3.89	50.0	7.40	pCi/L	03/04/14 15:22	03/10/14 03:20	1
Lead-214	1.07	U	7.33	7.33	50.0	10.5	pCi/L	03/04/14 15:22	03/10/14 03:20	1
Potassium-40	100		49.8	50.9	75.0	74.4	pCi/L	03/04/14 15:22	03/10/14 03:20	1
Protactinium-234m	192	U G	328	328	75.0	504	pCi/L	03/04/14 15:22	03/10/14 03:20	1
Protactinium-231	4.82	U G	63.1	63.1	75.0	107	pCi/L	03/04/14 15:22	03/10/14 03:20	1

TestAmerica St. Louis

Client Sample Results

Client: Posillico Dev Company at Harbor Isle LLC
 Project/Site: Glen Isle, Radiological Analyses

TestAmerica Job ID: 160-5766-1

Client Sample ID: LT-C-054-GW

Lab Sample ID: 160-5766-7

Date Collected: 02/26/14 14:55

Matrix: Water

Date Received: 03/01/14 08:25

Method: 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
			Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-226	11.6		1.65	1.96	1.00	0.725	pCi/L	03/03/14 14:52	03/05/14 18:43	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	70.2		40 - 110					03/03/14 14:52	03/05/14 18:43	1

Method: 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
			Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-228	2.90	G	1.28	1.31	1.00	1.85	pCi/L	03/03/14 14:45	03/06/14 10:59	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	76.7		40 - 110					03/03/14 14:45	03/06/14 10:59	1
Y Carrier	86.3		40 - 110					03/03/14 14:45	03/06/14 10:59	1

Method: A-01-R - Isotopic Thorium (Alpha Spectrometry)

Analyte	Result	Qualifier	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
			Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Thorium-228	3.58	G	1.14	1.18	1.00	1.34	pCi/L	03/14/14 12:01	03/19/14 15:04	1
Thorium-230	4.18		1.06	1.11	1.00	0.891	pCi/L	03/14/14 12:01	03/19/14 15:04	1
Thorium-232	2.62	G	0.948	0.973	1.00	1.10	pCi/L	03/14/14 12:01	03/19/14 15:04	1
Tracer	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Thorium-229	65.3		30 - 110					03/14/14 12:01	03/19/14 15:04	1

Method: A-01-R - Isotopic Uranium (Alpha Spectrometry)

Analyte	Result	Qualifier	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
			Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Uranium-233/234	7.03	G	3.28	3.33	1.00	2.23	pCi/L	03/06/14 09:47	03/12/14 18:03	1
Uranium-235/236	-0.170	UG	0.241	0.241	1.00	2.36	pCi/L	03/06/14 09:47	03/12/14 18:03	1
Uranium-238	4.39	G	2.64	2.67	1.00	2.36	pCi/L	03/06/14 09:47	03/12/14 18:03	1
Tracer	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Uranium-232	50.2		30 - 110					03/06/14 09:47	03/12/14 18:03	1

Method: GA-01-R - Cesium-137 & Other Gamma Emitters (GS)

Analyte	Result	Qualifier	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
			Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Actinium-228	20.8		9.16	9.39	50.0	9.81	pCi/L	03/04/14 15:22	03/17/14 03:14	1
Cesium-137	0.283	U	2.46	2.46	20.0	4.25	pCi/L	03/04/14 15:22	03/17/14 03:14	1
Bismuth-212	12.7	U	27.9	27.9	50.0	47.1	pCi/L	03/04/14 15:22	03/17/14 03:14	1
Bismuth-214	16.8		6.29	6.52	50.0	9.43	pCi/L	03/04/14 15:22	03/17/14 03:14	1
Lead-212	4.59	U	4.08	4.12	50.0	7.33	pCi/L	03/04/14 15:22	03/17/14 03:14	1
Lead-214	25.0		5.37	5.96	50.0	6.92	pCi/L	03/04/14 15:22	03/17/14 03:14	1
Potassium-40	110		35.0	36.7	75.0	46.3	pCi/L	03/04/14 15:22	03/17/14 03:14	1
Protactinium-234m	479	G	299	303	75.0	460	pCi/L	03/04/14 15:22	03/17/14 03:14	1

TestAmerica St. Louis

Client Sample Results

Client: Posillico Dev Company at Harbor Isle LLC
 Project/Site: Glen Isle, Radiological Analyses

TestAmerica Job ID: 160-5766-1

Client Sample ID: LT-C-054-GW

Lab Sample ID: 160-5766-7

Date Collected: 02/26/14 14:55

Matrix: Water

Date Received: 03/01/14 08:25

Method: GA-01-R - Cesium-137 & Other Gamma Emitters (GS) (Continued)

Analyte	Result	Qualifier	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
			Uncert.	(2σ+/-)						
Protactinium-231	7.72	UG		17.6		75.0	109	pCi/L	03/04/14 15:22	03/17/14 03:14

Client Sample ID: DUP032

Lab Sample ID: 160-5766-8

Date Collected: 02/26/14 00:00

Matrix: Water

Date Received: 03/01/14 08:25

Method: 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
			Uncert.	(2σ+/-)						
Radium-226	1.11		0.267	0.285	1.00	0.233	pCi/L	03/03/14 14:52	03/05/14 18:43	1
Carrier										
Ba Carrier	84.1			40 - 110				03/03/14 14:52	03/05/14 18:43	1

Method: 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
			Uncert.	(2σ+/-)						
Radium-228	1.09		0.324	0.339	1.00	0.420	pCi/L	03/03/14 14:45	03/06/14 11:00	1
Carrier										
Ba Carrier	84.4			40 - 110				03/03/14 14:45	03/06/14 11:00	1
Y Carrier	86.3			40 - 110				03/03/14 14:45	03/06/14 11:00	1

Method: A-01-R - Isotopic Thorium (Alpha Spectrometry)

Analyte	Result	Qualifier	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
			Uncert.	(2σ+/-)						
Thorium-228	0.277	U	0.300	0.301	1.00	0.454	pCi/L	03/06/14 09:47	03/12/14 18:05	1
Tracer										
Thorium-229	36.2			30 - 110				03/06/14 09:47	03/12/14 18:05	1

Method: A-01-R - Isotopic Uranium (Alpha Spectrometry)

Analyte	Result	Qualifier	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
			Uncert.	(2σ+/-)						
Uranium-233/234	0.205		0.161	0.162	1.00	0.173	pCi/L	03/06/14 09:47	03/12/14 18:03	1
Tracer										
Uranium-235/236	-0.00660	U *	0.0132	0.0132	1.00	0.160	pCi/L	03/06/14 09:47	03/12/14 18:03	1
Uranium-238	0.307		0.197	0.199	1.00	0.192	pCi/L	03/06/14 09:47	03/12/14 18:03	1
Uranium-232	66.5			30 - 110				03/06/14 09:47	03/12/14 18:03	1

TestAmerica St. Louis

Client Sample Results

Client: Posillico Dev Company at Harbor Isle LLC
 Project/Site: Glen Isle, Radiological Analyses

TestAmerica Job ID: 160-5766-1

Client Sample ID: DUP032

Lab Sample ID: 160-5766-8

Date Collected: 02/26/14 00:00

Matrix: Water

Date Received: 03/01/14 08:25

Method: GA-01-R - Cesium-137 & Other Gamma Emitters (GS)

Analyte	Result	Qualifier	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
			(2σ+/-)	(2σ+/-)						
Actinium-228	11.0	U	8.74	8.81	50.0	13.8	pCi/L	03/04/14 15:22	03/10/14 03:20	1
Cesium-137	1.69	U	1.97	1.98	20.0	3.23	pCi/L	03/04/14 15:22	03/10/14 03:20	1
Bismuth-212	22.6	U	29.0	29.1	50.0	47.9	pCi/L	03/04/14 15:22	03/10/14 03:20	1
Bismuth-214	7.74	U	10.1	10.1	50.0	12.7	pCi/L	03/04/14 15:22	03/10/14 03:20	1
Lead-212	-1.29	U	4.80	4.80	50.0	7.53	pCi/L	03/04/14 15:22	03/10/14 03:20	1
Lead-214	8.57	U	6.98	7.04	50.0	9.08	pCi/L	03/04/14 15:22	03/10/14 03:20	1
Potassium-40	76.5		42.6	43.3	75.0	64.8	pCi/L	03/04/14 15:22	03/10/14 03:20	1
Protactinium-234m	160	UG	321	321	75.0	531	pCi/L	03/04/14 15:22	03/10/14 03:20	1
Protactinium-231	22.7	UG	56.5	56.5	75.0	112	pCi/L	03/04/14 15:22	03/10/14 03:20	1

Client Sample ID: FB004-GW

Lab Sample ID: 160-5766-9

Date Collected: 02/26/14 14:30

Matrix: Water

Date Received: 03/01/14 08:25

Method: 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
			(2σ+/-)	(2σ+/-)						
Radium-226	0.0199	U	0.119	0.119	1.00	0.231	pCi/L	03/03/14 14:52	03/05/14 18:43	1
<i>Carrier</i>										
Ba Carrier	96.8		<i>Limits</i>					Prepared	Analyzed	Dil Fac
			40 - 110					03/03/14 14:52	03/05/14 18:43	1

Method: 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
			(2σ+/-)	(2σ+/-)						
Radium-228	0.209	U	0.212	0.213	1.00	0.346	pCi/L	03/03/14 14:45	03/06/14 11:00	1
<i>Carrier</i>										
Ba Carrier	98.8		<i>Limits</i>					Prepared	Analyzed	Dil Fac
Y Carrier	90.8		40 - 110					03/03/14 14:45	03/06/14 11:00	1

Method: A-01-R - Isotopic Thorium (Alpha Spectrometry)

Analyte	Result	Qualifier	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
			(2σ+/-)	(2σ+/-)						
Thorium-228	0.0182	U	0.171	0.171	1.00	0.376	pCi/L	03/06/14 09:47	03/12/14 18:05	1
<i>Carrier</i>										
Thorium-230	0.142	U *	0.162	0.162	1.00	0.233	pCi/L	03/06/14 09:47	03/12/14 18:05	1
Thorium-232	-0.0508	U	0.0852	0.0854	1.00	0.304	pCi/L	03/06/14 09:47	03/12/14 18:05	1
<i>Tracer</i>										
Thorium-229	52.5		<i>Limits</i>					Prepared	Analyzed	Dil Fac
			30 - 110					03/06/14 09:47	03/12/14 18:05	1

Method: A-01-R - Isotopic Uranium (Alpha Spectrometry)

Analyte	Result	Qualifier	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
			(2σ+/-)	(2σ+/-)						
Uranium-233/234	0.0302	U	0.0707	0.0707	1.00	0.147	pCi/L	03/06/14 09:47	03/12/14 18:03	1

TestAmerica St. Louis

Client Sample Results

Client: Posillico Dev Company at Harbor Isle LLC
 Project/Site: Glen Isle, Radiological Analyses

TestAmerica Job ID: 160-5766-1

Client Sample ID: FB004-GW

Lab Sample ID: 160-5766-9

Date Collected: 02/26/14 14:30

Matrix: Water

Date Received: 03/01/14 08:25

Method: A-01-R - Isotopic Uranium (Alpha Spectrometry) (Continued)

Analyte	Result	Qualifier	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
			Uncert.	(2σ+/-)						
Uranium-235/236	0.0301	U	0.0601	0.0602	1.00	0.0902	pCi/L	03/06/14 09:47	03/12/14 18:03	1
Uranium-238	-0.00452	U	0.00904	0.00905	1.00	0.110	pCi/L	03/06/14 09:47	03/12/14 18:03	1
Tracer	%Yield	Qualifier	Limits							
Uranium-232	77.5		30 - 110						03/06/14 09:47	
										1

Method: GA-01-R - Cesium-137 & Other Gamma Emitters (GS)

Analyte	Result	Qualifier	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
			Uncert.	(2σ+/-)						
Actinium-228	5.02	U	6.23	6.25	50.0	11.6	pCi/L	03/04/14 15:22	03/14/14 02:56	1
Cesium-137	1.74	U	2.12	2.13	20.0	3.48	pCi/L	03/04/14 15:22	03/14/14 02:56	1
Bismuth-212	17.9	U	26.8	26.9	50.0	44.6	pCi/L	03/04/14 15:22	03/14/14 02:56	1
Bismuth-214	5.45	U	5.28	5.30	50.0	8.59	pCi/L	03/04/14 15:22	03/14/14 02:56	1
Lead-212	0.978	U	5.46	5.46	50.0	7.67	pCi/L	03/04/14 15:22	03/14/14 02:56	1
Lead-214	11.0		5.71	5.82	50.0	7.23	pCi/L	03/04/14 15:22	03/14/14 02:56	1
Potassium-40	57.5		29.7	30.3	75.0	43.7	pCi/L	03/04/14 15:22	03/14/14 02:56	1
Protactinium-234m	137	U G	303	303	75.0	512	pCi/L	03/04/14 15:22	03/14/14 02:56	1
Protactinium-231	-8.94	U G	60.0	60.0	75.0	102	pCi/L	03/04/14 15:22	03/14/14 02:56	1

TestAmerica St. Louis

QC Sample Results

Client: Posillico Dev Company at Harbor Isle LLC
 Project/Site: Glen Isle, Radiological Analyses

TestAmerica Job ID: 160-5766-1

Method: 903.0 - Radium-226 (GFPC)

Lab Sample ID: MB 160-108071/1-A

Matrix: Water

Analysis Batch: 108745

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 108071

Analyte	MB MB		Count (2σ+/-)	Total (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier								
Radium-226	0.09473	U	0.112	0.112	1.00	0.183	pCi/L	03/03/14 14:52	03/05/14 18:34	1
Carrier										
Ba Carrier	94.4			40 - 110				03/03/14 14:52	03/05/14 18:34	1

Lab Sample ID: LCS 160-108071/2-A

Matrix: Water

Analysis Batch: 108744

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 108071

Analyte	Spike		LCS Result	LCS Qual	Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec.
	Added	Result								
Radium-226	11.2	10.65			1.20	1.00	0.175	pCi/L	95	68 - 137
Carrier										
Ba Carrier	96.2			40 - 110						

Lab Sample ID: 160-5766-9 DU

Matrix: Water

Analysis Batch: 108744

Client Sample ID: FB004-GW

Prep Type: Total/NA

Prep Batch: 108071

Analyte	Sample		DU Result	DU Qual	Uncert. (2σ+/-)	RL	MDC	Unit	RER	Limit
	Result	Qual								
Radium-226	0.0199	U	0.1228	U	0.122	1.00	0.191	pCi/L	0.43	1
Carrier										
Ba Carrier	97.1			40 - 110						

Method: 904.0 - Radium-228 (GFPC)

Lab Sample ID: MB 160-108067/1-A

Matrix: Water

Analysis Batch: 108811

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 108067

Analyte	MB MB		Count (2σ+/-)	Total (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier								
Radium-228	0.05515	U	0.210	0.210	1.00	0.365	pCi/L	03/03/14 14:45	03/06/14 10:59	1
Carrier										
Ba Carrier	103			40 - 110				03/03/14 14:45	03/06/14 10:59	1
Y Carrier	87.1			40 - 110				03/03/14 14:45	03/06/14 10:59	1

TestAmerica St. Louis

QC Sample Results

Client: Posillico Dev Company at Harbor Isle LLC
 Project/Site: Glen Isle, Radiological Analyses

TestAmerica Job ID: 160-5766-1

Method: 904.0 - Radium-228 (GFPC) (Continued)

Lab Sample ID: LCS 160-108067/2-A

Matrix: Water

Analysis Batch: 108811

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 108067

Analyte	Spike Added	LCS		Uncert. (2σ+/-)	Total		%Rec.	Limits
		Result	Qual		RL	MDC		
Radium-228	3.95	3.691		0.550	1.00	0.385	pCi/L	93 56 - 140
Carrier								
Ba Carrier	101			40 - 110				
Y Carrier	88.0			40 - 110				

Method: A-01-R - Isotopic Thorium (Alpha Spectrometry)

Lab Sample ID: MB 160-108795/1-A

Matrix: Water

Analysis Batch: 110081

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 108795

Analyte	Result	MB Qualifier	Count		Total		Prepared	Analyzed	Dil Fac	
			Uncert. (2σ+/-)	Uncert. (2σ+/-)	RL	MDC				
Thorium-228	0.1314	U	0.207	0.207	1.00	0.362	pCi/L	03/06/14 09:47	03/12/14 18:05	
Thorium-230	0.1614	U	0.180	0.180	1.00	0.231	pCi/L	03/06/14 09:47	03/12/14 18:05	
Thorium-232	0.03600	U	0.0902	0.0902	1.00	0.202	pCi/L	03/06/14 09:47	03/12/14 18:05	
Tracer			MB %Yield	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
Thorium-229	42.6				30 - 110			03/06/14 09:47	03/12/14 18:05	1

Lab Sample ID: LCS 160-108795/2-A

Matrix: Water

Analysis Batch: 110082

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 108795

Analyte	Spike Added	LCS		Uncert. (2σ+/-)	Total		%Rec.	Limits
		Result	Qual		RL	MDC		
Thorium-230	8.64	14.11	*	1.83	1.00	0.158	pCi/L	163 81 - 125
Tracer								
Thorium-229	53.5			30 - 110				

Lab Sample ID: LCSD 160-108795/3-A

Matrix: Water

Analysis Batch: 110083

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 108795

Analyte	Spike Added	LCSD		Uncert. (2σ+/-)	Total		%Rec.	Limits	RER	Limit
		Result	Qual		RL	MDC				
Thorium-230	8.64	13.34	*	1.70	1.00	0.173	pCi/L	154 81 - 125	0.22	1
Tracer										
Thorium-229	57.0			30 - 110						

TestAmerica St. Louis

QC Sample Results

Client: Posillico Dev Company at Harbor Isle LLC
 Project/Site: Glen Isle, Radiological Analyses

TestAmerica Job ID: 160-5766-1

Method: A-01-R - Isotopic Thorium (Alpha Spectrometry) (Continued)

Lab Sample ID: MB 160-110519/1-A

Matrix: Water

Analysis Batch: 111254

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 110519

Analyte	Result	MB	MB	Count		Total		Prepared	Analyzed	Dil Fac	
				Uncert.	(2σ+/-)	Uncert.	(2σ+/-)				
Thorium-228	-0.0008633	U		0.0654	0.0654	1.00	0.139	pCi/L	03/14/14 12:01	03/18/14 15:45	
Thorium-230	0.1411			0.0781	0.0790	1.00	0.0573	pCi/L	03/14/14 12:01	03/18/14 15:45	
Thorium-232	0.02621	U		0.0329	0.0330	1.00	0.0309	pCi/L	03/14/14 12:01	03/18/14 15:45	
Tracer	%Yield	MB	MB	Spike	LCS	Total	Limits	Prepared	Analyzed	Dil Fac	
Thorium-229	81.5			8.64	9.121	9.79	1.00	0.0306	pCi/L	03/14/14 12:01	03/18/14 15:45

Lab Sample ID: LCS 160-110519/2-A

Matrix: Water

Analysis Batch: 111256

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 110519

Analyte	Added	Spike	LCS	LCS	Total		%Rec.	Limits	%Rec.	Limits		
					Result	Qual	Uncert.	(2σ+/-)	RL	MDC	Unit	
Thorium-230	8.64	8.64	9.121		9.79		1.00	0.0306	pCi/L	106	81 - 125	
Tracer	%Yield	LCS	LCS	Added	Result	Qual	Total	Limits	Prepared	Analyzed	Dil Fac	
Thorium-229	83.6			8.64	9.635		1.03	1.00	0.0312	pCi/L	112	81 - 125

Lab Sample ID: LCSD 160-110519/3-A

Matrix: Water

Analysis Batch: 111257

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 110519

Analyte	Added	Spike	LCSD	LCSD	Total		%Rec.	Limits	RER	Limit	
					Result	Qual	Uncert.	(2σ+/-)	RL	MDC	Unit
Thorium-230	8.64	8.64	9.635		9.79		1.03	1.03	1.00	0.0312	pCi/L
Tracer	%Yield	LCSD	LCSD	Added	Result	Qual	Total	Limits	Prepared	Analyzed	RER
Thorium-229	81.3			8.64	9.635		1.03	1.03	1.00	0.0312	pCi/L

Lab Sample ID: MB 160-110522/1-A

Matrix: Solid

Analysis Batch: 111589

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 110522

Analyte	Result	MB	MB	Count		Total		Prepared	Analyzed	Dil Fac	
				Uncert.	(2σ+/-)	Uncert.	(2σ+/-)	RL	MDC	Unit	
Thorium-228	0.03117	U		0.0532	0.0533	1.00	0.0957	pCi/g	03/14/14 12:04	03/19/14 19:11	
Thorium-230	0.06205			0.0508	0.0511	1.00	0.0312	pCi/g	03/14/14 12:04	03/19/14 19:11	
Thorium-232	0.006464	U		0.0214	0.0214	1.00	0.0537	pCi/g	03/14/14 12:04	03/19/14 19:11	
Tracer	%Yield	MB	MB	Added	Result	Qual	Total	Limits	Prepared	Analyzed	Dil Fac
Thorium-229	89.1			8.64	9.635		1.03	1.03	1.00	0.0312	pCi/L

TestAmerica St. Louis

QC Sample Results

Client: Posillico Dev Company at Harbor Isle LLC
 Project/Site: Glen Isle, Radiological Analyses

TestAmerica Job ID: 160-5766-1

Method: A-01-R - Isotopic Thorium (Alpha Spectrometry) (Continued)

Lab Sample ID: LCS 160-110522/2-A

Matrix: Solid

Analysis Batch: 111590

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 110522

Analyte	Spike Added	LCS		LCS		Uncert. (2σ+/-)	Total		MDC	Unit	%Rec.	Limits
		Result	Qual	Result	Qual		RL	%Rec.				
Thorium-230	24.5	24.41				2.49	1.00		0.0923	pCi/g	100	81 - 118
Tracer	LCS %Yield	LCS Qualifier	Limits									
Thorium-229	90.5			30 - 110								

Lab Sample ID: 160-5766-1 DU

Matrix: Solid

Analysis Batch: 111593

Client Sample ID: LT-C-065-0-2

Prep Type: Total/NA

Prep Batch: 110522

Analyte	Sample		Sample		DU		DU		Uncert. (2σ+/-)	Total		RER	Limit	
	Result	Qual	Result	Qual	Result	Qual	Result	Qual		RL	MDC	Unit		
Thorium-228	0.464		0.4457		0.4457		0.147	1.00	0.100	pCi/g			0.06	1
Thorium-230	0.510		0.4700		0.4700		0.145	1.00	0.0470	pCi/g			0.13	1
Thorium-232	0.556		0.3827		0.3827		0.129	1.00	0.0306	pCi/g			0.59	1
Tracer	DU %Yield	DU Qualifier	DU Limits											
Thorium-229	89.4		30 - 110											

Method: A-01-R - Isotopic Uranium (Alpha Spectrometry)

Lab Sample ID: MB 160-108692/1-A

Matrix: Solid

Analysis Batch: 109626

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 108692

Analyte	MB		MB		Count		Total		RL	MDC	Unit	Prepared	Analyzed	Dil Fac	
	Result	Qualifier	Result	Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)	RL	MDC	Unit						
Uranium-233/234	-0.01242	U			0.0101	0.0102	1.00	0.0751	pCi/g	03/05/14 10:37	03/10/14 21:06		1		
Uranium-235/236	-0.005152	U			0.00729	0.00730	1.00	0.0714	pCi/g	03/05/14 10:37	03/10/14 21:06		1		
Uranium-238	-0.008264	U			0.00826	0.00829	1.00	0.0673	pCi/g	03/05/14 10:37	03/10/14 21:06		1		
Tracer	MB %Yield	MB Qualifier	MB Limits												
Uranium-232	82.9		30 - 110										03/05/14 10:37	03/10/14 21:06	1

Lab Sample ID: LCS 160-108692/2-A

Matrix: Solid

Analysis Batch: 109259

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 108692

Analyte	Spike		LCS		LCS		Uncert. (2σ+/-)	Total		MDC	Unit	%Rec.	Limits	
	Added	Result	Result	Qual	RL	%Rec.		RL	MDC	Unit				
Uranium-233/234	6.37		5.842		0.693	1.00	0.115	pCi/g			92	84 - 120		
Uranium-238	6.51		6.373		0.738	1.00	0.0889	pCi/g			98	82 - 122		
Tracer	LCS %Yield	LCS Qualifier	LCS Limits											
Uranium-232	91.4		30 - 110											

TestAmerica St. Louis

QC Sample Results

Client: Posillico Dev Company at Harbor Isle LLC
 Project/Site: Glen Isle, Radiological Analyses

TestAmerica Job ID: 160-5766-1

Method: A-01-R - Isotopic Uranium (Alpha Spectrometry) (Continued)

Lab Sample ID: 160-5766-1 DU

Matrix: Solid

Analysis Batch: 109261

Client Sample ID: LT-C-065-0-2

Prep Type: Total/NA

Prep Batch: 108692

Analyte	Sample	Sample	DU	DU	Total		RL	MDC	Unit	RER	Limit
	Result	Qual	Result	Qual	Uncert. (2σ+/-)						
Uranium-233/234	0.374		0.2976		0.131		1.00	0.130	pCi/g	0.29	1
Uranium-235/236	0.0241	U	0.01457	U	0.0405		1.00	0.0888	pCi/g	0.12	1
Uranium-238	0.293		0.2791		0.120		1.00	0.0969	pCi/g	0.06	1
<i>Tracer</i>		<i>DU</i>	<i>DU</i>								
<i>Uranium-232</i>		<i>%Yield</i>	<i>Qualifier</i>	<i>Limits</i>							
		83.2		30 - 110							

Lab Sample ID: MB 160-108807/1-A

Matrix: Water

Analysis Batch: 110071

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 108807

Analyte	Sample	Sample	Count	Total		RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qual	Uncert. (2σ+/-)	Uncert. (2σ+/-)							
Uranium-233/234	0.02758	U	0.0765	0.0766		1.00	0.161	pCi/L	03/06/14 09:47	03/12/14 18:03	1
Uranium-235/236	0.06864	U	0.0916	0.0918		1.00	0.136	pCi/L	03/06/14 09:47	03/12/14 18:03	1
Uranium-238	0.001311	U	0.0455	0.0455		1.00	0.136	pCi/L	03/06/14 09:47	03/12/14 18:03	1
<i>Tracer</i>		<i>MB</i>	<i>MB</i>								
<i>Uranium-232</i>		<i>%Yield</i>	<i>Qualifier</i>	<i>Limits</i>							
		85.9		30 - 110							

Lab Sample ID: LCS 160-108807/2-A

Matrix: Water

Analysis Batch: 110072

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 108807

Analyte	Sample	Sample	Spike	LC	LC	Uncert.	RL	MDC	Unit	%Rec	Limits
	Added	Result	Qual	(2σ+/-)							
Uranium-233/234			12.7	11.84		1.41	1.00	0.0639	pCi/L	93	84 - 120
Uranium-238			13.0	13.28		1.54	1.00	0.0967	pCi/L	102	83 - 121
<i>Tracer</i>		<i>LC</i>	<i>LC</i>								
<i>Uranium-232</i>		<i>%Yield</i>	<i>Qualifier</i>	<i>Limits</i>							
		87.8		30 - 110							

Lab Sample ID: LCSD 160-108807/3-A

Matrix: Water

Analysis Batch: 110073

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 108807

Analyte	Sample	Sample	Spike	LCSD	LCSD	Uncert.	RL	MDC	Unit	%Rec	Limits
	Added	Result	Qual	(2σ+/-)							
Uranium-233/234			12.7	13.19		1.54	1.00	0.131	pCi/L	104	84 - 120
Uranium-238			13.0	12.12		1.44	1.00	0.122	pCi/L	93	83 - 121
<i>Tracer</i>		<i>LCSD</i>	<i>LCSD</i>								
<i>Uranium-232</i>		<i>%Yield</i>	<i>Qualifier</i>	<i>Limits</i>							
		88.2		30 - 110							

TestAmerica St. Louis

QC Sample Results

Client: Posillico Dev Company at Harbor Isle LLC
 Project/Site: Glen Isle, Radiological Analyses

TestAmerica Job ID: 160-5766-1

Method: GA-01-R - Cesium-137 & Other Gamma Emitters (GS)

Lab Sample ID: MB 160-108349/1-A

Matrix: Water

Analysis Batch: 110969

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 108349

Analyte	Result	MB	MB	Count		Total		Prepared	Analyzed	Dil Fac
				Uncert.	(2σ+/-)	Uncert.	(2σ+/-)			
Actinium-228	7.374	U		8.16		8.20	50.0	14.7 pCi/L	03/04/14 15:22	03/17/14 03:13
Cesium-137	-1.120	U		2.82		2.82	20.0	4.78 pCi/L	03/04/14 15:22	03/17/14 03:13
Bismuth-212	19.67	U		28.4		28.5	50.0	47.2 pCi/L	03/04/14 15:22	03/17/14 03:13
Bismuth-214	3.807	U		7.06		7.07	50.0	11.8 pCi/L	03/04/14 15:22	03/17/14 03:13
Lead-212	-1.999	U		6.65		6.65	50.0	7.56 pCi/L	03/04/14 15:22	03/17/14 03:13
Lead-214	6.516	U		6.33		6.37	50.0	8.72 pCi/L	03/04/14 15:22	03/17/14 03:13
Potassium-40	43.13	U		39.3		39.6	75.0	61.8 pCi/L	03/04/14 15:22	03/17/14 03:13
Protactinium-234m	36.22	U G		219		219	75.0	517 pCi/L	03/04/14 15:22	03/17/14 03:13
Protactinium-231	3.760	U G		7.23		7.24	75.0	107 pCi/L	03/04/14 15:22	03/17/14 03:13

Lab Sample ID: LCS 160-108349/2-A

Matrix: Water

Analysis Batch: 108751

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 108349

Analyte	Spike	Added	LCS	LCS	Total			%Rec.	Limits
					Result	Qual	Uncert.		
Americium-241		137000	135300		15600		481 pCi/L	99	90 - 111
Cesium-137		50300	50820		5050		174 pCi/L	101	90 - 111
Cobalt-60		58600	57850		5710		89.2 pCi/L	99	89 - 110

Lab Sample ID: 160-5766-B-5-B DU

Matrix: Water

Analysis Batch: 109857

Client Sample ID: 160-5766-B-5-B DU

Prep Type: Total/NA

Prep Batch: 108349

Analyte	Sample	Sample	DU			Total			RER	Limit	
			Result	Qual	Result	Qual	Uncert.	(2σ+/-)	RL	MDC	Unit
Actinium-228			7.336	U			6.74		50.0	12.5 pCi/L	
Cesium-137			1.028	U			2.27		20.0	3.83 pCi/L	
Bismuth-212			16.17	U			28.8		50.0	48.1 pCi/L	
Bismuth-214			10.01	U			6.83		50.0	10.6 pCi/L	
Lead-212			0.9164	U			4.40		50.0	7.11 pCi/L	
Lead-214			5.064	U			6.38		50.0	9.61 pCi/L	
Potassium-40			19.08	U			38.0		75.0	55.7 pCi/L	
Protactinium-234			293.1	U			281		75.0	474 pCi/L	
m											
Protactinium-231			-3.854	U			8.82		75.0	104 pCi/L	

Method: GA-01-R - Radium-226 & Other Gamma Emitters (GS)

Lab Sample ID: MB 160-108780/1-A

Matrix: Solid

Analysis Batch: 110648

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 108780

Analyte	MB	MB	Count		Total		Prepared	Analyzed	Dil Fac
			Result	Qualifier	Uncert.	(2σ+/-)	RL	MDC	Unit
Actinium 228	0.005747	U	0.00769		0.00771		0.100	0.0171	pCi/g
Bismuth-212	0.02268	U	0.0308		0.0309		0.100	0.0509	pCi/g
Bismuth-214	-0.007453	U	0.0143		0.0143		0.100	0.0129	pCi/g

TestAmerica St. Louis

QC Sample Results

Client: Posillico Dev Company at Harbor Isle LLC
 Project/Site: Glen Isle, Radiological Analyses

TestAmerica Job ID: 160-5766-1

Method: GA-01-R - Radium-226 & Other Gamma Emitters (GS) (Continued)

Lab Sample ID: MB 160-108780/1-A

Matrix: Solid

Analysis Batch: 110648

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 108780

Analyte	Result	MB	MB	Count		Total		Prepared	Analyzed	Dil Fac		
				Uncert.	(2σ+/-)	Uncert.	(2σ+/-)					
Lead-210	0.02257	U		0.0588		0.0588	0.100	0.0924	pCi/g	03/06/14 08:41	03/14/14 02:54	1
Lead-212	0.001223	U		0.00608		0.00608	0.100	0.00827	pCi/g	03/06/14 08:41	03/14/14 02:54	1
Lead-214	0.001548	U		0.00725		0.00725	0.100	0.0103	pCi/g	03/06/14 08:41	03/14/14 02:54	1
Potassium-40	0.03049	U		0.0357		0.0359	2.50	0.0590	pCi/g	03/06/14 08:41	03/14/14 02:54	1
Protactinium-231	0.01539	U		0.0460		0.0460	1.00	0.0784	pCi/g	03/06/14 08:41	03/14/14 02:54	1
Radium-226	-0.05294	U		0.105		0.106	1.00	0.107	pCi/g	03/06/14 08:41	03/14/14 02:54	1
Radium-228	0.005747	U		0.00769		0.00771	1.00	0.0171	pCi/g	03/06/14 08:41	03/14/14 02:54	1
Thorium-234	0.002920	U		0.0589		0.0589	1.00	0.0862	pCi/g	03/06/14 08:41	03/14/14 02:54	1
Thallium-208	0.001967	U		0.00341		0.00341	0.100	0.00518	pCi/g	03/06/14 08:41	03/14/14 02:54	1
Uranium-235	0.01029	U		0.0132		0.0132	1.00	0.0224	pCi/g	03/06/14 08:41	03/14/14 02:54	1
Uranium-238	0.002920	U		0.0589		0.0589	1.00	0.0862	pCi/g	03/06/14 08:41	03/14/14 02:54	1
Protactinium-234m	0.2832	U		0.347		0.349	10.0	0.571	pCi/g	03/06/14 08:41	03/14/14 02:54	1

Lab Sample ID: LCS 160-108780/2-A

Matrix: Solid

Analysis Batch: 109859

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 108780

Analyte	Spike Added	LCS		Total		RL	MDC	Unit	%Rec	Limits
		Result	Qual	Uncert.	(2σ+/-)					
Americium-241	101	97.60		10.2			0.511	pCi/g	97	87 - 116
Cesium-137	35.7	33.70		3.53		0.100	0.164	pCi/g	94	87 - 120
Cobalt-60	41.6	38.46		3.88			0.0830	pCi/g	93	87 - 115

Lab Sample ID: 160-5766-1 DU

Matrix: Solid

Analysis Batch: 110649

Client Sample ID: LT-C-065-0-2

Prep Type: Total/NA

Prep Batch: 108780

Analyte	Sample		DU		Total		RL	MDC	Unit	RER	Limit
	Result	Sample Qual	Result	DU Qual	Uncert.	(2σ+/-)					
Actinium 228	0.559		0.5671		0.0648		0.100	0.0215	pCi/g	0.06	1
Bismuth-212	0.623		0.6546		0.120		0.100	0.0881	pCi/g	0.13	1
Bismuth-214	0.446		0.4752		0.0535		0.100	0.0152	pCi/g	0.28	1
Lead-210	0.436		0.4963		0.130		0.100	0.154	pCi/g	0.24	1
Lead-212	0.608		0.6064		0.0796		0.100	0.0110	pCi/g	0.01	1
Lead-214	0.546		0.5412		0.0585		0.100	0.0131	pCi/g	0.04	1
Potassium-40	8.88		9.096		0.953		2.50	0.0629	pCi/g	0.11	1
Protactinium-231	-0.226	U	-0.2934	U	0.131		1.00	0.205	pCi/g	0.25	1
Radium-226	1.11		1.073		0.236		1.00	0.163	pCi/g	0.07	1
Radium-228	0.559		0.5671		0.0648		1.00	0.0215	pCi/g	0.06	1
Thorium-234	0.604		0.6658		0.150		1.00	0.169	pCi/g	0.22	1
Thallium-208	0.184		0.1943		0.0225		0.100	0.00756	pCi/g	0.23	1
Uranium-235	0.0554		0.06007		0.0313		1.00	0.0410	pCi/g	0.08	1
Uranium-238	0.604		0.6658		0.150		1.00	0.169	pCi/g	0.22	1
Protactinium-234	1.67		1.248		0.455		10.0	0.694	pCi/g	0.31	1
m											

TestAmerica St. Louis

QC Association Summary

Client: Posillico Dev Company at Harbor Isle LLC
 Project/Site: Glen Isle, Radiological Analyses

TestAmerica Job ID: 160-5766-1

Rad

Leach Batch: 108032

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-5766-1	LT-C-065-0-2	Total/NA	Solid	Dry and Grind	
160-5766-1 DU	LT-C-065-0-2	Total/NA	Solid	Dry and Grind	
160-5766-2	LT-C-066-0-2	Total/NA	Solid	Dry and Grind	
160-5766-3	LT-C-067-10-12	Total/NA	Solid	Dry and Grind	
160-5766-4	LT-C-064-8-10	Total/NA	Solid	Dry and Grind	

Prep Batch: 108067

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-5766-5	FB031	Total/NA	Water	PrecSep_0	
160-5766-6	CC-C-028-GW	Total/NA	Water	PrecSep_0	
160-5766-7	LT-C-054-GW	Total/NA	Water	PrecSep_0	
160-5766-8	DUP032	Total/NA	Water	PrecSep_0	
160-5766-9	FB004-GW	Total/NA	Water	PrecSep_0	
LCS 160-108067/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
MB 160-108067/1-A	Method Blank	Total/NA	Water	PrecSep_0	

Prep Batch: 108071

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-5766-5	FB031	Total/NA	Water	PrecSep_0	
160-5766-6	CC-C-028-GW	Total/NA	Water	PrecSep_0	
160-5766-7	LT-C-054-GW	Total/NA	Water	PrecSep_0	
160-5766-8	DUP032	Total/NA	Water	PrecSep_0	
160-5766-9	FB004-GW	Total/NA	Water	PrecSep_0	
160-5766-9 DU	FB004-GW	Total/NA	Water	PrecSep_0	
LCS 160-108071/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
MB 160-108071/1-A	Method Blank	Total/NA	Water	PrecSep_0	

Prep Batch: 108349

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-5766-5	FB031	Total/NA	Water	Fill_Geo-0	
160-5766-6	CC-C-028-GW	Total/NA	Water	Fill_Geo-0	
160-5766-7	LT-C-054-GW	Total/NA	Water	Fill_Geo-0	
160-5766-8	DUP032	Total/NA	Water	Fill_Geo-0	
160-5766-9	FB004-GW	Total/NA	Water	Fill_Geo-0	
160-5766-B-5-B DU	160-5766-B-5-B DU	Total/NA	Water	Fill_Geo-0	
LCS 160-108349/2-A	Lab Control Sample	Total/NA	Water	Fill_Geo-0	
MB 160-108349/1-A	Method Blank	Total/NA	Water	Fill_Geo-0	

Prep Batch: 108692

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-5766-1	LT-C-065-0-2	Total/NA	Solid	ExtChrom	108032
160-5766-1 DU	LT-C-065-0-2	Total/NA	Solid	ExtChrom	108032
160-5766-2	LT-C-066-0-2	Total/NA	Solid	ExtChrom	108032
160-5766-3	LT-C-067-10-12	Total/NA	Solid	ExtChrom	108032
160-5766-4	LT-C-064-8-10	Total/NA	Solid	ExtChrom	108032
LCS 160-108692/2-A	Lab Control Sample	Total/NA	Solid	ExtChrom	
MB 160-108692/1-A	Method Blank	Total/NA	Solid	ExtChrom	

Prep Batch: 108780

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-5766-1	LT-C-065-0-2	Total/NA	Solid	Fill_Geo-0	108032

TestAmerica St. Louis

QC Association Summary

Client: Posillico Dev Company at Harbor Isle LLC
 Project/Site: Glen Isle, Radiological Analyses

TestAmerica Job ID: 160-5766-1

Rad (Continued)

Prep Batch: 108780 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-5766-1 DU	LT-C-065-0-2	Total/NA	Solid	Fill_Geo-0	108032
160-5766-2	LT-C-066-0-2	Total/NA	Solid	Fill_Geo-0	108032
160-5766-3	LT-C-067-10-12	Total/NA	Solid	Fill_Geo-0	108032
160-5766-4	LT-C-064-8-10	Total/NA	Solid	Fill_Geo-0	108032
LCS 160-108780/2-A	Lab Control Sample	Total/NA	Solid	Fill_Geo-0	
MB 160-108780/1-A	Method Blank	Total/NA	Solid	Fill_Geo-0	

Prep Batch: 108795

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-5766-5	FB031	Total/NA	Water	ExtChrom	9
160-5766-6	CC-C-028-GW	Total/NA	Water	ExtChrom	
160-5766-8	DUP032	Total/NA	Water	ExtChrom	10
160-5766-9	FB004-GW	Total/NA	Water	ExtChrom	
LCS 160-108795/2-A	Lab Control Sample	Total/NA	Water	ExtChrom	11
LCSD 160-108795/3-A	Lab Control Sample Dup	Total/NA	Water	ExtChrom	
MB 160-108795/1-A	Method Blank	Total/NA	Water	ExtChrom	

Prep Batch: 108807

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-5766-5	FB031	Total/NA	Water	ExtChrom	
160-5766-6	CC-C-028-GW	Total/NA	Water	ExtChrom	
160-5766-7	LT-C-054-GW	Total/NA	Water	ExtChrom	
160-5766-8	DUP032	Total/NA	Water	ExtChrom	
160-5766-9	FB004-GW	Total/NA	Water	ExtChrom	
LCS 160-108807/2-A	Lab Control Sample	Total/NA	Water	ExtChrom	
LCSD 160-108807/3-A	Lab Control Sample Dup	Total/NA	Water	ExtChrom	
MB 160-108807/1-A	Method Blank	Total/NA	Water	ExtChrom	

Prep Batch: 110519

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-5766-7	LT-C-054-GW	Total/NA	Water	ExtChrom	
LCS 160-110519/2-A	Lab Control Sample	Total/NA	Water	ExtChrom	
LCSD 160-110519/3-A	Lab Control Sample Dup	Total/NA	Water	ExtChrom	
MB 160-110519/1-A	Method Blank	Total/NA	Water	ExtChrom	

Prep Batch: 110522

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-5766-1	LT-C-065-0-2	Total/NA	Solid	ExtChrom	108032
160-5766-1 DU	LT-C-065-0-2	Total/NA	Solid	ExtChrom	108032
160-5766-2	LT-C-066-0-2	Total/NA	Solid	ExtChrom	108032
160-5766-3	LT-C-067-10-12	Total/NA	Solid	ExtChrom	108032
160-5766-4	LT-C-064-8-10	Total/NA	Solid	ExtChrom	108032
LCS 160-110522/2-A	Lab Control Sample	Total/NA	Solid	ExtChrom	
MB 160-110522/1-A	Method Blank	Total/NA	Solid	ExtChrom	

TestAmerica St. Louis

Tracer/Carrier Summary

Client: Posillico Dev Company at Harbor Isle LLC
Project/Site: Glen Isle, Radiological Analyses

TestAmerica Job ID: 160-5766-1

Method: 903.0 - Radium-226 (GFPC)

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Yield (Acceptance Limits)	
		Ba (40-110)	
160-5766-5	FB031	94.4	
160-5766-6	CC-C-028-GW	78.5	
160-5766-7	LT-C-054-GW	70.2	
160-5766-8	DUP032	84.1	
160-5766-9	FB004-GW	96.8	
160-5766-9 DU	FB004-GW	97.1	
LCS 160-108071/2-A	Lab Control Sample	96.2	
MB 160-108071/1-A	Method Blank	94.4	

Tracer/Carrier Legend
Ba = Ba Carrier

Method: 904.0 - Radium-228 (GFPC)

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Yield (Acceptance Limits)	
		Ba (40-110)	Y (40-110)
160-5766-5	FB031	103	87.6
160-5766-6	CC-C-028-GW	83.5	89.6
160-5766-7	LT-C-054-GW	76.7	86.3
160-5766-8	DUP032	84.4	86.3
160-5766-9	FB004-GW	98.8	90.8
LCS 160-108067/2-A	Lab Control Sample	101	88.0
MB 160-108067/1-A	Method Blank	103	87.1

Tracer/Carrier Legend
Ba = Ba Carrier
Y = Y Carrier

Method: A-01-R - Isotopic Thorium (Alpha Spectrometry)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Yield (Acceptance Limits)	
		Th-229 (30-110)	
160-5766-1	LT-C-065-0-2	84.6	
160-5766-1 DU	LT-C-065-0-2	89.4	
160-5766-2	LT-C-066-0-2	82.4	
160-5766-3	LT-C-067-10-12	81.9	
160-5766-4	LT-C-064-8-10	88.7	
LCS 160-110522/2-A	Lab Control Sample	90.5	
MB 160-110522/1-A	Method Blank	89.1	

Tracer/Carrier Legend
Th-229 = Thorium-229

TestAmerica St. Louis

Tracer/Carrier Summary

Client: Posillico Dev Company at Harbor Isle LLC
Project/Site: Glen Isle, Radiological Analyses

TestAmerica Job ID: 160-5766-1

Method: A-01-R - Isotopic Thorium (Alpha Spectrometry)

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Yield (Acceptance Limits)	
		Th-229 (30-110)	
160-5766-5	FB031	50.6	
160-5766-6	CC-C-028-GW	30.8	
160-5766-7	LT-C-054-GW	65.3	
160-5766-8	DUP032	36.2	
160-5766-9	FB004-GW	52.5	
LCS 160-108795/2-A	Lab Control Sample	53.5	
LCS 160-110519/2-A	Lab Control Sample	83.6	
LCSD 160-108795/3-A	Lab Control Sample Dup	57.0	
LCSD 160-110519/3-A	Lab Control Sample Dup	81.3	
MB 160-108795/1-A	Method Blank	42.6	
MB 160-110519/1-A	Method Blank	81.5	

Tracer/Carrier Legend

Th-229 = Thorium-229

Method: A-01-R - Isotopic Uranium (Alpha Spectrometry)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Yield (Acceptance Limits)	
		U-232 (30-110)	
160-5766-1	LT-C-065-0-2	85.7	
160-5766-1 DU	LT-C-065-0-2	83.2	
160-5766-2	LT-C-066-0-2	90.5	
160-5766-3	LT-C-067-10-12	82.6	
160-5766-4	LT-C-064-8-10	82.9	
LCS 160-108692/2-A	Lab Control Sample	91.4	
MB 160-108692/1-A	Method Blank	82.9	

Tracer/Carrier Legend

U-232 = Uranium-232

Method: A-01-R - Isotopic Uranium (Alpha Spectrometry)

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Yield (Acceptance Limits)	
		U-232 (30-110)	
160-5766-5	FB031	79.4	
160-5766-6	CC-C-028-GW	66.1	
160-5766-7	LT-C-054-GW	50.2	
160-5766-8	DUP032	66.5	
160-5766-9	FB004-GW	77.5	
LCS 160-108807/2-A	Lab Control Sample	87.8	
LCSD 160-108807/3-A	Lab Control Sample Dup	88.2	
MB 160-108807/1-A	Method Blank	85.9	

Tracer/Carrier Legend

U-232 = Uranium-232

TestAmerica St. Louis